US Army Corps of Engineers
Planning Center of Expertise
for Inland Navigation (CXIN)

USACE Planning Center of Expertise for Inland Navigation (CXIN)

MVD Planning CoP Workshop

8 November 2004

by the LRD Navigation Planning Center

Huntington, West Virginia

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CXIN Resources

- Center staff – 14 FTEs (economists, engineers, statistical assistants)
- Virtual team – Part Time
  - 7 economists & engineers in Pittsburgh, Louisville, Nashville, Buffalo, Detroit & Chicago
  - Economists, engineers, OR specialists at TVA, Oak Ridge National Labs, and contractors
- Like your help identifying resources in your MSC

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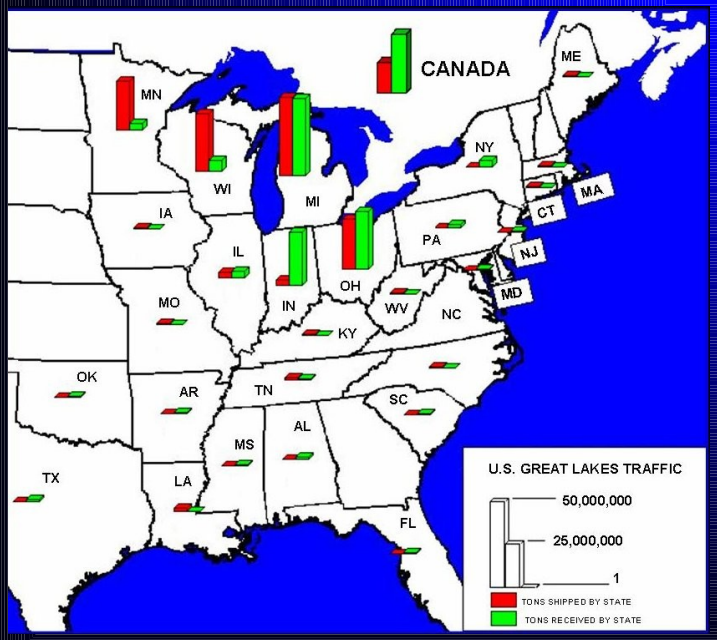
Websites

- **Current site has LRD navigation info**
  https://outreach.lrh.usace.army.mil
- **CXIN site scheduled by Jan 05**



- **Mission summary**
- **Who we are (skills, type of work)**
- **Organization expertise (types of studies)**
- **Library (presentations, studies)**
- **How to reach us (sample SOWs)**

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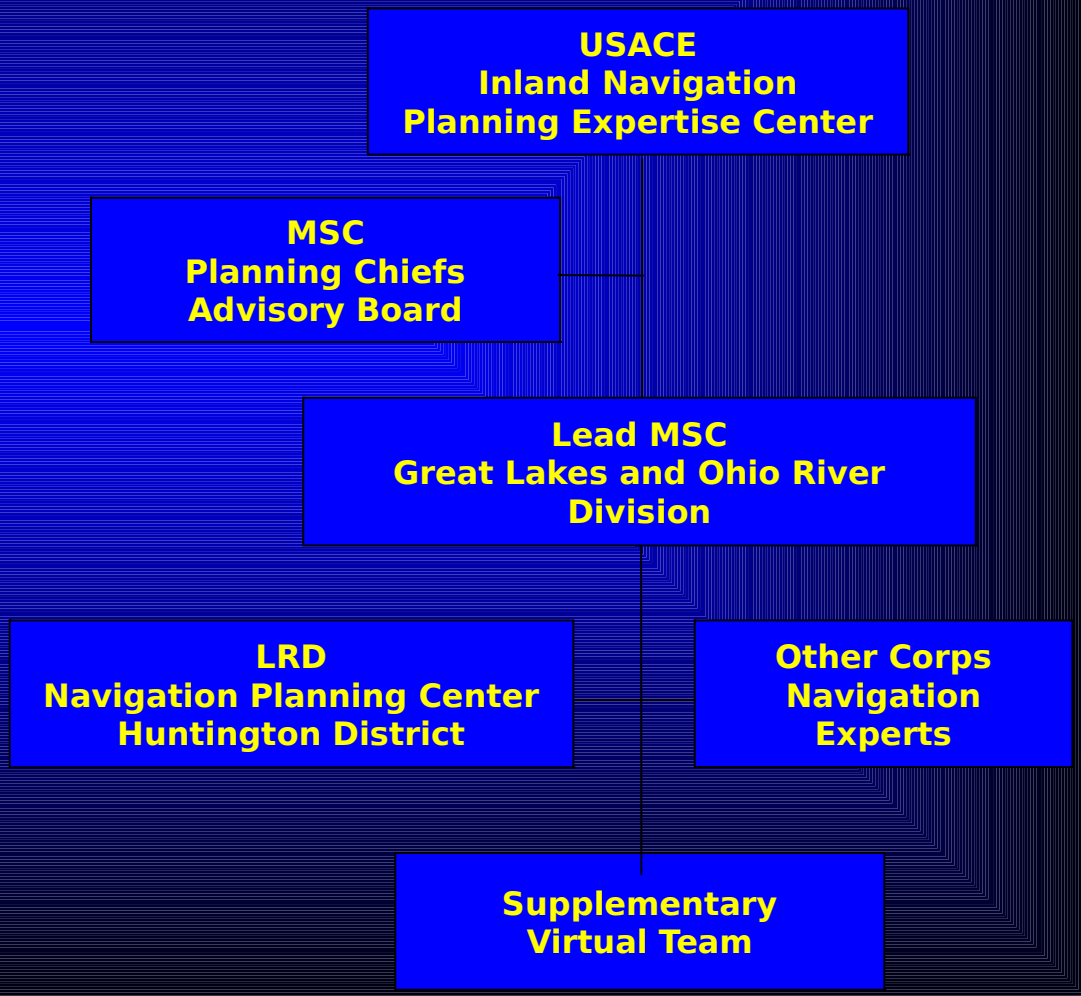
Organization

- **MSC Planning Chiefs**
  - Help with HQ
  - Help with national perspective
  - Help define CXIN role & how it works



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How the CXIN works

- Lots of responsibilities
- Largely unplanned & unfunded
  - Walk-in business, big or small job
  - Business walks through multiple doors
  - Difficult to recruit with lack of advance notice
  - Can you help identify & direct work?
- Moving past start-up phase requires stable funding environment
- Functioning on 23 years of momentum

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LRD Center Success
Commitment & Clarity

- LRD invested in people, data, and models
- Virtual teaming provides flexibility and depth
- LRD clearly defines the respective roles of
  - The Districts
    - Project management
    - Public involvement
    - Site-specific assessments
  - The Center

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LRD Center Success Center Funding

- Identifiable & recognizable need
- Partnership with districts (customers)
  - Dependable service, includes support after sale
  - Technically defensible products
  - Use both when & when not required
  - Identify & use district skills
- Management support
  - Recognize importance of data & models
  - System funding plan to support data &

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Total Program
($1,000)

Program	FY 04 Funds	FY 05 Funds
LRD work	$ 876	$ 865
Work for other MSCs	$ 212	$ -
R&D for IWR & ERDC	$ 50	$ 360
Sub-total CXIN	$ 1,138	$ 1,225
Non-CX		
Dev.& Maint. Models & Data	$ 792	$ 840
Collection of WCSC (NDC)	$ 637	$ 440
Sub-total non-CX	$ 1,429	$ 1,280
TOTAL	$ 2,567	$ 2,505

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Inland Navigation CoP

- Reflects CX roles in initial application
- All 7 LRD districts participate
- 4 telecons beginning Sept 2003
  - Status reports on projects – 15 studies, lasts 1 and 1/2 hours
  - Forum for matching needs and resources
  - Cumbersome, may move to topic oriented
- Are other MSC districts interested?

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CXIN Challenges

- Funding
- Meeting Expectations
- Clarifying the CXIN Role
- Research & Data
- Management

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CXIN Challenge
Funding

- **Securing threshold level of funding for the CXIN**
  - **Maintain access to key resources**
  - **Unpredictable, insufficient to support national-level data bases and models**
  - **Tie-in with Inland Navigation Planning CoP – funding for participation**
  - **Expectations and funds are out-of-balance**

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CXIN Challenge
Meet Expectations

- Studies, ITRs, R&D, mentoring, lessons learned
- Example, “Planning Models Improvement Task Force” recommendations for CX
  - Certify planning models
  - Develop, test, document, maintain, update and provide training & ongoing support
  - Work with nat’l data collection programs to improve data
  - Identify/reduce model redundancy
  - Oversee strategic research program

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CXIN Challenges
Clear Role

- LRD regulations for Nav Planning Center indicate a minimum level of involvement
- Current CX guidance seems to say you might do everything for everyone, or nothing for anyone, or somewhere in between

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CXIN Challenges Research

- **IWR and ERDC reached out through NETS**
  - **Lock closure event studies (Greenup, McAlpine, LD 27)**
  - **System reliability (data, current state, forecast)**
  - **Incorporating elasticity in economic models**
  - **Enhancing system lock performance models**
- **Challenge resourcing these studies – limited knowledge of skill sets, availability in other MSC districts – help us identify?**

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CXIN Challenges Data

- Two key databases need quality upgrades NOW
  - LPMS – unreliable closure, timing, and tonnage data
  - WCSC- unreported data, undocumented programs
- Why the urgency?
  - LPMS lock traffic is the quality check for WCSC
  - WCSC is check on operators tax payments to IWUF
  - LPMS & WCSC → OMBIL → allocate Nav Bus Line funds
  - Both data sets used in GI funded navigation

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CXIN Challenges Management

- Balance & manage workload among resources
- Standards for ITRs, reports
- Delineate lines of authority
- What entity sells the CXIN, directs it to maximum advantage for the Corps
- O & M and other Business Line Needs
- Setting priorities